

GenCore version 5.1.1.9  
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OM protein - protein search, using sw model

Run on: December 20, 2006, 04:58:01 ; Search time 51 Seconds  
(without alignments)  
1268.336 Million cell updates/sec

Title: US-10-736-461-1  
Perfect score: 3774  
Sequence: 1 MSSSEKQHNVSPPRDSAEQN.....EVSXNQKGVCPNGLSLSSD 739

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 650591 seqs, 87530628 residues

Total number of hits satisfying chosen parameters: 650591

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents\_AA.\*

1: /EMC\_Celerra\_SID33/ptodata/2/iaa/5\_COMB.pep.\*

2: /EMC\_Celerra\_SID33/ptodata/2/iaa/6\_COMB.pep.\*

3: /EMC\_Celerra\_SID33/ptodata/2/iaa/7\_COMB.pep.\*

4: /EMC\_Celerra\_SID33/ptodata/2/iaa/H\_COMB.pep.\*

5: /EMC\_Celerra\_SID33/ptodata/2/iaa/PCUTUS\_COMB.pep.\*

6: /EMC\_Celerra\_SID33/ptodata/2/iaa/RE\_COMB.pep.\*

7: /EMC\_Celerra\_SID33/ptodata/2/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3769	99.9	748	2	US-09-949-016-10387
2	1240	32.9	744	2	US-09-785-381-1
3	1234.5	32.7	744	2	US-09-785-381-3
4	1181	31.3	803	2	US-09-949-016-11498
5	1178	31.2	780	2	US-09-785-381-11
6	1056.5	28.0	764	1	US-08-424-567-2
7	1056.5	28.0	764	1	US-08-711-928-2
8	1056.5	28.0	764	2	US-09-184-937-2
9	1056.5	28.0	790	2	US-09-949-016-11220
10	900.5	23.9	656	2	US-09-875-811-10
11	896.5	23.8	663	2	US-09-875-811-6
12	896.5	23.8	679	2	US-09-875-811-2
13	855.5	22.7	651	2	US-10-094-749-2440
14	826.5	21.9	598	2	US-09-875-811-12
15	822.5	21.8	605	2	US-09-875-811-8
16	822.5	21.8	621	2	US-09-875-811-4
17	714	18.9	970	2	US-09-795-927-7
18	659.5	17.5	656	2	US-09-720-317A-20
19	640.5	17.0	593	2	US-09-720-317A-22
20	640	17.0	660	2	US-09-720-317A-30
21	636.5	16.9	680	2	US-09-720-317A-18
22	636	16.9	621	2	US-09-720-317A-16
23	618.5	16.4	658	2	US-09-720-317A-24
24	613.5	16.3	631	2	US-09-720-317A-29
25	609.5	16.1	646	2	US-09-720-317A-26
26	602.5	16.0	688	2	US-09-720-317A-2

27	602	16.0	660	2	US-09-720-317A-23
28	599	15.9	646	2	US-09-720-317A-28
29	586.5	15.5	579	2	US-09-720-317A-4
30	568.5	15.1	644	2	US-09-720-317A-25
31	568.5	15.1	685	2	US-09-720-317A-31
32	520	13.8	295	2	US-09-785-381-5
33	505.5	13.4	596	2	US-09-252-991A-23812
34	503	13.3	828	2	US-09-248-796A-20746
35	500.5	13.3	590	2	US-09-902-540-14944
36	462.5	12.3	565	2	US-09-602-787A-616
37	443	11.7	616	2	US-09-543-681A-4421
38	336	8.9	472	2	US-09-502-540-13374
39	327.5	8.7	566	2	US-09-543-681A-4544
40	324	8.6	535	2	US-09-252-991A-21805
41	319.5	8.5	533	2	US-09-107-532A-5244
42	318.5	8.4	562	2	US-09-489-039A-10405
43	316.5	8.4	575	2	US-09-438-185A-1015
44	291.5	7.7	380	2	US-09-540-236-2833
45	286	7.6	483	2	US-09-710-279-3132

ALIGNMENTS

RESULT 1  
US-09-949-016-10387  
; Sequence 10387, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CL001307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755  
; PRIOR FILING DATE: 2000-10-20  
; PRIOR APPLICATION NUMBER: 60/237,768  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/231,498  
; PRIOR FILING DATE: 2000-09-08  
; NUMBER OF SEQ ID NOS: 207012  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10387  
; LENGTH: 748  
; TYPE: PRT  
; ORGANISM: Human  
US-09-949-016-10387

Query Match	99.9%	Score 3769;	DB 2;	Length 748;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 738;	Conservative 1;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MSSSEKQHNVSPPRDSAEQNSYPSGHIHLEQRESSTDFKQFETNDQCRPYHRIILIEROE	60	
Db	10	MSSSEKQHNVSPPRDSAEQNSYPSGHIHLEQRESSTDFKQFETNDQCRPYHRIILIEROE	69	
Qy	61	KSDTNFKEFVKKLQKNCQCSAPAKKNMILGFLPVQLWLPKYDLKKNILGDVMSGLIVGI	120	
Db	70	KSDTNFKEFVKKLQKNCQCSAPAKKNMILGFLPVQLWLPKYDLKKNILGDVMSGLIVGI	129	
Qy	121	LLVPOSTAYSLLAGEPVGITYTSFFASIIYFLGTSHSHSVGIFGVLCMIGETVDREL	180	
Db	130	LLVPOSTAYSLLAGEPVGITYTSFFASIIYFLGTSHSHSVGIFGVLCMIGETVDREL	189	
Qy	191	OKAGYDNNHSAPSLGMVNSGNTLLNHTSDRICDSCYAIMVGSTVTFETAGVYQVAMGPFQ	240	
Db	190	OKAGYDNNHSAPSLGMVNSGNTLLNHTSDRICDSCYAIMVGSTVTFETAGVYQVAMGPFQ	249	
Qy	241	VGFVSVYLSALLSGFVTGASFTILTTSQAKYLLGLNLPRTNGVGSGLITTTIWHVFRNIHKT	300	
Db	250	VGFVSVYLSALLSGFVTGASFTILTTSQAKYLLGLNLPRTNGVGSGLITTTIWHVFRNIHKT	309	

Qy 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIPIELVWVVAATLASHFGKLNHYNSI 360  
Db 310 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIPIELVWVVAATLASHFGKLNHYNSI 369  
Qy 361 AGHIPTGMPKPVPEWNLIPSAVDAIAISIIIGPAITVLSLSEMAFKKHGYTVKANOENYA 420  
Db 370 AGHIPTGMPKPVPEWNLIPSAVDAIAISIIIGPAITVLSLSEMAFKKHGYTVKANOENYA 429  
Qy 421 IGFCNIIPSPFCHFTTSAALAKTLVKESTGCHTQLSGVVTAIVLLVLLVLLVLLVLLVLLV 480  
Db 430 IGFCNIIPSPFCHFTTSAALAKTLVKESTGCHTQLSGVVTAIVLLVLLVLLVLLVLLVLLV 489  
Qy 481 SVLGVTITVNLRGALRKFRDLPKMSISRMDTVIWFVMTLSALLSTIGLILVGVCSIF 540  
Db 490 SVLGVTITVNLRGALRKFRDLPKMSISRMDTVIWFVMTLSALLSTIGLILVGVCSIF 549  
Qy 541 CVILRTQPKSLGLLVESEVFSVSAKNLQTKPGIKIPRFVAPLYIINKECFKSALY 600  
Db 550 CVILRTQPKSLGLLVESEVFSVSAKNLQTKPGIKIPRFVAPLYIINKECFKSALY 609  
Qy 601 KOTVNPILIKVAKKAARKIKKVVTLGGIQDEMSVOLSHDPLELHTIVIDCSAIOPLN 660  
Db 610 KOTVNPILIKVAKKAARKIKKVVTLGGIQDEMSVOLSHDPLELHTIVIDCSAIOPLD 669  
Qy 661 TAGIHTLKEVRDYEAGIQVLLAQCNPTRDLSLTNGEYCKKEBENLLFYSVYEMAFAPAE 720  
Db 670 TAGIHTLKEVRDYEAGIQVLLAQCNPTRDLSLTNGEYCKKEBENLLFYSVYEMAFAPAE 729  
Qy 721 VSKNQKVCVNGLSLSD 739  
Db 730 VSKNQKVCVNGLSLSD 748

## RESULT 2

US-09-785-381-1  
; Sequence 1, Application US/09785381  
; Patent No. 6602992

; GENERAL INFORMATION:  
; APPLICANT: DALLOS, Peter  
; APPLICANT: ZHENG, Jing  
; APPLICANT: MADISON, Laird  
; TITLE OF INVENTION: A MAMMALIAN PRESTIN  
; FILE REFERENCE: 0290-37U1  
; CURRENT APPLICATION NUMBER: US/09/785,381  
; CURRENT FILING DATE: 2001-02-16  
; PRIOR APPLICATION NUMBER: US 60/183,461  
; PRIOR FILING DATE: 2000-02-18  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 1  
; LENGTH: 744  
; TYPE: PRT  
; ORGANISM: Meriones unguiculatus  
US-09-785-381-1

Query Match 32.9%; Score 1240; DB 2; Length 744;  
Best Local Similarity 37.0%; Pred. No. 1.2e-116;  
Matches 265; Conservative 142; Mismatches 248; Indels 62; Gaps 9;  
Qy 52 HRILIEROEKSDTNFKEFVIKKLOKNCOCSPAKAKNMILGFLPVLQWLPKYDLKKNILGD 111  
Db 25 HPVLQERLHVKD-KVSESIGDKLQKQFTCTPKIRNIIMFLPITKWLPAKFKYEVLLGD 83  
Qy 112 VMGLIIVGILLVPOQSIAYSLAQEPVYGLYTSFPAIIYFLGTSRHSISVIGFVLCML 171  
Db 84 LVSGISITGVLPQGLAFAMLAAPVPFGLYSSFPVIMYCFGTSRHSISIGPFAVLSLM 143  
Qy 172 IGETVDRELQKAGYDNAHSAFSLGMVNSGTLLNHTSDRICDKCYAIMVGSVTFVFIAGV 231  
Db 144 IGGVAVR-----LVDDIVIPGVNATNGTEAR----DALRVKAVMSVTLISGI 188  
Qy 232 YQVAMGFQGVFVSVYLLSDALLSGFVTCASFILTISOAKYLLGLNLPRTNGVGLSITWI 291

Db 189 IQFCLGVCRFVVAIYLTEPLVRGFTTAAAVHVFTSMKYLFGVTKRYSGISFVWYVTV 248  
Qy 292 HVFRNIHTKLCDLITSLCLLVLLPTKELNEHFKSKLAPIPIELVWVVAATLASHFGK 351  
Db 249 AVLQNVKLVNCSLGVGLWVFGLLGGKEPNERFKEKLPAPIPLEFFAVVMGTGISAGFN 308  
Qy 352 LHENYNSSIACHITPTGMPKPVPEWNLIPSAVDAIAISIIIGPAITVLSLSEMAFKKHGYT 411  
Db 309 LHESYSYDVVVGTPLGLLPPANPDTSLFHLVYVDAIAIAIVGFSVTISMAKTLANKHGYQ 368  
Qy 412 VKANOENYAIGFCNIIPSPFCHFTTSAALAKTLVKESTGCHTQLSGVVTAIVLLVLLVLLV 471  
Db 369 VDNQOELIAGICNSIGSLFQTFISCSLSRSLVQEGTGKTLQAGCLASIMILLVILAT 428  
Qy 472 APLFYSIQKSVLGVITITVNLRGALRKFRDLPKMSISRMDTVIWFVMTLSALLSTIGL 531  
Db 429 GLFESLPOAVLSAIVNLKGMFMQFSDLPPFWRTSKIELTIWLTTFVSSLSFLGLDYL 488  
Qy 532 LVGVCFISFVILRTQPKSLGLLVESEVFSVSAKNLQTKPGIKIPRFVAPLYIIN 591  
Db 489 ITAVITALLTVIYRTOSPSYKVLGOLPDTDVIIDAYEEVKEIPGKIFQINAPIYAN 548  
Qy 592 KECFKSALYKOT-VNPILIKVAKKAARKIKK-----KVTLGGIQD----- 633  
Db 549 SDLYSNALKRKTGNPALINGARKAMRYAKEVGNANIANAAVVKVGDGVDGENATKPE 608  
Qy 634 EMSVOLSHDPL-----ELHTIVIDCSAIOFLNTAGIHTLKEVRDYE 675  
Db 609 EEDDEVKYPPIVIKTTFPPELQRFMPOTENVHTIILDFTQVNFIDSVGKTLAVMKEYG 668  
Qy 676 AIGIQVLLAQCNPTRDLSLTNGEYCKKEE-ENLLFVSIVY-----EAMAFAEVS 722  
Db 669 DVGIVYVLAGCSPQVNDLTRNFFENPALKELFHSHIDAVLGLSHVREAMABOEAS 725

## RESULT 3

US-09-785-381-3  
; Sequence 3, Application US/09785381  
; Patent No. 6602992

; GENERAL INFORMATION:  
; APPLICANT: DALLOS, Peter  
; APPLICANT: ZHENG, Jing  
; APPLICANT: MADISON, Laird  
; TITLE OF INVENTION: A MAMMALIAN PRESTIN  
; FILE REFERENCE: 0290-37U1  
; CURRENT APPLICATION NUMBER: US/09/785,381  
; CURRENT FILING DATE: 2001-02-16  
; PRIOR APPLICATION NUMBER: US 60/183,461  
; PRIOR FILING DATE: 2000-02-18  
; NUMBER OF SEQ ID NOS: 16  
; SOFTWARE: Patent in version 3.0  
; SEQ ID NO 3  
; LENGTH: 744  
; TYPE: PRT  
; ORGANISM: Mus sp.  
US-09-785-381-3

Query Match 32.7%; Score 1234.5; DB 2; Length 744;  
Best Local Similarity 36.8%; Pred. No. 4.4e-116;  
Matches 260; Conservative 145; Mismatches 249; Indels 53; Gaps 8;  
Qy 52 HRILIEROEKSDTNFKEFVIKKLOKNCOCSPAKAKNMILGFLPVLQWLPKYDLKKNILGD 111  
Db 25 HPVLQERLHVKD-KVSESIGDKLQKQFTCTPKIRNIIMFLPITKWLPAKFKYEVLLGD 83  
Qy 112 VMGLIIVGILLVPOQSIAYSLAQEPVYGLYTSFPAIIYFLGTSRHSISVIGFVLCML 171  
Db 84 LVSGISITGVLPQGLAFAMLAAPVPFGLYSSFPVIMYCFGTSRHSISIGPFAVLSLM 143  
Qy 172 IGETVDRELQKAGYDNAHSAFSLGMVNSGTLLNHTSDRICDKCYAIMVGSVTFVFIAGV 231  
Db 144 IGGVAVR-----LVDDIVIPGVNATNGTEAR----DALRVKAVMSVTLISGI 188



Db	24	RPVSELAFOQORERRLPERRTRDLSLAKSCSRKRAFGALKALLPIIDMLPKYKVKEM	83
Qy	108	ILGDVMSGLIVGILLVPOSIAYSLLAGOPVYGLYTSFFPASIYFLLGTSRHSISVGIFGV	167
Db	84	LLSDIISGVSTGLVCTLQCMAYALLAAVPQYGLYSAFFPILTYFVFGTSRHSISVGPPV	143
Qy	168	LCLMIGETVDBRELQAGYDNHAHSPLGMVNGSTLLNHTSDRI CDKSCYAWMGSTVTF	227
Db	144	VSLMVGSVV---LSNAP-DDHELFVS---GNGST-LNTTTLDGTGRDAARVLLASTLT	194
Qy	228	IAGVYQVAMGPFQVGFVSYYLSDALLSGFVTCASFTILTSQAQYLGLLNLPRTNGVGSII	287
Db	195	LVGIIQLVFGGLQIGFIVRYLADPLVGGFTTAAAFQVLVSQKIVLNVSTKNYNGVLSII	254
Qy	288	TTWTHVFRNIHKTNCDLITSLLCLLVLLPTKELNEHFKSUKAPIELVWVVAATLAS	347
Db	255	YTLIEIFQIGNGTNIADPIAGLLTIIVCMVAVKELNDRFKHPVPIPIEIVITIIATAIS	314
Qy	348	HFGKLHENYNSIAGHIPTGMPKPKVPEWNLLPSVAVDAAIAISIGFAITVLSLSEMAFK	407
Db	315	YGANLEANYAGIVKSIPISGFUPPVLPSVGLFSDMLAASFSAVAAYATAVSGVKYATK	374
Qy	408	HGYTVKANQEMYAIGFCNIIIPSFHFCHFTTSAALAKTLVKESGCHTQLSGWTVTALLIV	467
Db	375	HDYIIDGNQEFIAFGISNVFSGFCFVATTALSRTAQVESTGGKTQVAGLISAVIMVA	434
Qy	468	LLVTAPLPSLOKSVLGVITIVNLRGALKRFDLPKMWISIRMDTVIVFWTMLSSALLST	527
Db	435	IVALGKLEPLEQKSVLAARVIANLGMFMQVQCDVPLRMKQNTDAVIMYFTFCIMSIIIGL	494
Qy	528	EIGLLGVGCFISFVILRTOKPKSSLGLLGVESSEVPESVAYKNLQTKPGIKIFRVAPL	587
Db	495	DLGLLAGLLFGLLTVLRVQPPSWNGLSVPSTDYIKSITHYKNLEPEEGVKILAFSSPI	554
Qy	588	YYINKECFKSALYKQTVNPILIKVAMWK-AAKRIKIEKV-----VTLGGI-----	631
Db	555	PYGNVDGPKCV-KSTVGFDAIRVYNKRLKALRRIQKLIKGOLRATKNGLISDVGSNN	613
Qy	632	-----ODEMSQVLSHDPLEHTHTVIDCSAQFNTAGI	664
Db	614	AFEPEDVEEPEELDIPKIEIQVDWNSLPVKVNPVKPIHSLVLDGCVSFLDVGVG	673
Qy	665	HTLKEVRDYEBAIGIQLLQAOCNPTVRDSTNGEYCKKEEENL-----LPYSVYEAMAPAE	720
Db	674	RSLRWIKVEFORIDVNVYFALLQDDVLEGM---EOCGPFDNIRKDRFPLTVHDAIILYQ	730
Qy	721	-VSKNQKG	727
Db	731	NOAKSREG	738

## RESULT 6

RES001 8  
US-08-424-567-2  
; Sequence 2, Application US/08424567  
; Patent No. 5569755  
; GENERAL INFORMATION:  
; APPLICANT: SCHWEINFEST, Clifford W.  
; APPLICANT: PAPAS, Takis S.  
; TITLE OF INVENTION: Colon Mucosa Gene Having Down-Regulated  
; TITLE OF INVENTION: Expression In Colon Adenomas And Adenocarcinomas  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Foley & Lardner  
; STREET: 3000 K Street, N.W., Suite 500  
; CITY: Washington, D.C.  
; COUNTRY: USA  
; ZIP: 20007-5109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25

Db 672 QEFIRIKVDVYVGTDDDDFIEKLNRYEFPFDEGVKSSIFFLLTIHDAVLHILMKKD 725

RESULT 7

US-08-711-928-2

Sequence 2, Application US/08711928

Patent No. 5831015

GENERAL INFORMATION:

APPLICANT: SCHWEINFEST, Clifford W.

APPLICANT: PAPAS, Takis S.

TITLE OF INVENTION: Colon Mucosa Gene Having Down-Regulated

TITLE OF INVENTION: Expression In Colon Adenomas And Adenocarcinomas

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington, D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/711,928

FILING DATE: 11-SEP-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/424,567

FILING DATE: 17-APR-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/026,045

FILING DATE: 05-MAR-1993

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 40399/354/NIHD

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5300

TELEFAX: (202)672-5399

TELEX: 904136

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 764 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-711-928-2

Query Match 28.0%; Score 1056.5; DB 1; Length 764;

Best Local Similarity 31.7%; Pred. No. 5.9e-98;

Matches 226; Conservative 162; Mismatches 269; Indels 57; Gaps 9;

QY 57 EROEKSDTFKFIKKLQKNCOCSPAKAKNMILGFLVQLQWPKYDLKNILGDVMSGL 116

Db 23 ENHKTKGRHKTF-LDHLKVCCSCSPQAKAKRIVLSLFPPIASWLPAYRLKEWLLSDIVSGI 81

QY 117 IVGILLAVPOSIAVSLLAGOEPVYGLYTSPEASIIYFLGTSRHSVIGFVLCIMGETV 176

Db 82 STGIVAVLOGLAFALLVDIPVYGLYASFPFPAIIYLFPGTSRHSVIGPPIILSMVGLAV 141

QY 177 DRELOKAGYDNHNASPSLGMV--SNGSTLNLNHTSDRICDKSCYAIWVGSTVTFIAGVYOV 234

Db 142 SGAVSKAVPD--RNATTLGLPNNNSNLLDDERVA-----AAASVTVLGIIQL 191

QY 235 ANGFFQVGFVSIVLSALLSGFVTGASFTILTSQAKYLLGLNLPRNGVSGSLITTHIHF 294

Db 192 AFGILRIGFVIVLSLSLISGFTTAAAHVVLVSQLKFIQLTVPSTDPVSPFKVLYSVF 251

QY 295 RNIHKNLCLDITSLCLLVLPTKELNEHFKSKLKAPIELVAVVVVAATLASHFGKLHE 354

Db 252 SQIEKTIADLVLTALIVLLVSVIVKEINQRFKDKLPPIEPIETMTVAAGSVYCGDPPN 311

QY 355 NYNSSIAGHIPTGFMPPKVPENLIPSVAVDAIAISIIIGFAITVLSGEMFAKKHGYTKA 414

Db 312 RFKVVAVVDNMPGFPPIPTDVFQNTVDCFGIAMVAFVAVSVASVSLKYDYPLDG 371

QY 415 NOEMYAIGFCNIIPSPFHCFTTSAALAKTLVKESTGHTQSLSGVVTALVLLVLLIAPL 474

Db 372 NOELIALGLGNIVGVFRGAGSTALSRSAVQESTGKTQIAGLIGAIIVLIVVLAIGFL 431

QY 475 FYSLOKSVLGVITIVNLRGALRKPRDLPKWMSISRMQTVIWFVMTLSALLSTIGLLVG 534

Db 432 LAPLQKSVLAALALGNLKGMLQFAEIGRLWRKDKYDCLTIWMTFFITVILGLGLGAAS 491

QY 535 VCFISFCVILRTQPKSSLLGLVESEVFSVSAYKNLQTKPGIKIFRFVAPLYVINKEC 594

Db 492 VAFOLLTIVFTQFPKCSLTANIGRTNIYKNKDYDMYEPGKIFRCSPPIFANIGF 551

QY 595 FKSALYKQT--VNPILIKVAMKAAK--RKIKEK-----VTLGGIO----- 632

Db 552 FRKLDVAVGFSPLRLIRKRNKALRKIRKLOKQGLLQVTPKGFCTVDTIKDSBELDNN 611

QY 633 -----DEMSVQLSHDPLELHTIVIDCSAIOELNAGIHTLKEVR 671

Db 612 QIEVLQOPINTTDLPHFIDWDDPLNIEVPKISLHSLIDFSAVSFLDVSSVRLGKSL 671

QY 672 RDEYAGIQVLLAQCNPTVRDSLTNCEYCKE--EENLLFYSVVEAMAFAEVSKN 724

Db 672 QEFIRIKVDVYVGTDDDDFIEKLNRYEFPFDEGVKSSIFFLLTIHDAVLHILMKKD 725

RESULT 8

US-09-184-937-2

Sequence 2, Application US/09184937

Patent No. 6210887

GENERAL INFORMATION:

APPLICANT: SCHWEINFEST, Clifford W.

APPLICANT: PAPAS, Takis S.

TITLE OF INVENTION: Colon Mucosa Gene Having Down-Regulated

TITLE OF INVENTION: Expression In Colon Adenomas And Adenocarcinomas

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington, D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/184,937

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/711,928

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/026,045

FILING DATE: 05-MAR-1993

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: BENT, Stephen A.

REGISTRATION NUMBER: 29,768

REFERENCE/DOCKET NUMBER: 40399/354/NIHD

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202)672-5300

TELEFAX: (202)672-5399

TELEX: 904136

```

; INFORMATION FOR SEQ ID NO: 2:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 764 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-184-937-2

```

Query Match 28.0%; Score 1056.5; DB 2; Length 764;  
Best Local Similarity 31.7%; Pred. No. 5.9e-98;  
Matches 226; Conservative 162; Mismatches 269; Indels 57; Gaps 9;

RESULT 9  
US-09-949-016-11220  
; Sequence 11220, Application US/09949016  
; Patent No. 6812339  
; GENERAL INFORMATION:  
; APPLICANT: VENTER, J. Craig et al.  
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED  
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF  
; FILE REFERENCE: CLO01307  
; CURRENT APPLICATION NUMBER: US/09/949,016  
; CURRENT FILING DATE: 2000-04-14  
; PRIOR APPLICATION NUMBER: 60/241,755

```

; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11220
; LENGTH: 790
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11220

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Query Match	28.0%	Score 1056.5	DB 2	Length 790	
Best Local Similarity	31.7%	Pred. No. 6.3e-98			
Matches	226	Conservative 162	Mismatches 269	Indels 57	Gaps 9
QY	57	ERQEKSDTTFKRPVKKLOKNCOCSPAKAKNMILGFLPVLQWLPKPYDLKKNILGDVMSGL	116		
DB	49	ENHKKTGRHKHTF-LDHLKVCCSCSQAKRIVLSLFPFIASWLPATYALKEWLSDIVSGI	107		
QY	117	IVGILLVPOSIAYSLLAGOEPVYGLYTSFFASIIYFLLGTSRHSISVGIFGLCLMIGETV	176		
DB	108	STGIVAVLOGLAFALLVDPVYVGLYASFPAAIYILFFGTSRHSISVGPPFILSNMVGGLAV	167		
QY	177	DRELQAGYDNNAHSAPSLGMV--SNGSTLLNHTSDRI CDKSCVAIMVGSTVTTIAGYQV	234		
DB	168	SGAVSKAVPD--RNATTGLPNNSNNSSLLDDERVRVA-----AAASVTLSGIIQL	217		
QY	235	AMGFFQGVFSVYLSALLSGFTVGASFILTSQAQVLLGLNLPRTNVGVSLTTMTHTVF	294		
DB	218	AFGILRIGFVVIYLSLSLISGFTTAAAVHVLVSQLFIFQLTVPSTHDPVSIKVLVSVF	277		
QY	295	RNIHTNMLCDLITSLLCLVLLPRTKELNHFHFKSLKAPIELVVLVVVVAATLASHFGKLHE	354		
DB	278	SQIEKTNIADLTALIVLVVSVISKEINORFKDKLPVPIPIEFIMTVIAAGSVSYGCDPKN	337		
QY	355	NNYSSTAGHIPGTFMPKPVPEWNLI PSVAVDATAISIIIGFAITVUSLSEMAFKKHGYTVKA	414		
DB	338	RFKVAVVGDMNPGFQPIPTDVFETQNTQVGDGCGIAMAVAFAPAVASVSLKYDYPLDG	397		
QY	415	NOEYMAIGFCNIIIPSFHFCTTSAALAKTLVKESTQTLQSGVVTALVLLVLLVLAFL	474		
DB	398	NOELIAGLGNIVCGVFRFGASTLRSRQAVQSTGGKQTQIAGLIGAIIVLIVVLAIGFL	457		
QY	475	FYSLOKSVLGVITIVNLGALRKFRDLPQWMSISRMDTVIWFVTLMSALLSTEIGLVLG	534		
DB	458	LAPLOKSVLAALAGNLKGLMWQFAIGRLRKQDYDCLIIWMTFTIIVLGLGLGLAAS	517		
QY	535	VCFISFCVILRTQKPSLLGLVESEVESVESAYKNLOTKPGIKIPRFVAPLYIYNKEC	594		
DB	518	VAPQLLTIIVFTQFPKCSLTANIGRTNIYKNKKDYDMVEPEGVKIPRCPSPISFANIGF	577		
QY	595	FKSALYKQT-VNPILIKVAKKAAK--RKKEK-----VVTLLGGIQL-----	632		
DB	578	FRKLLIDAVGFSPLRLRKXNKAIRKLQKQGLLQVTPKPGICTVDTIKDSDELDNN	637		
QY	633	-----DEMVSQLSHDPLDELHTIVIDCSAIOFLANTAGIHTLKEVR	671		
DB	638	QTEVLQDPIINTDPLPHIDWNDDLPLNIEVPKISLSLSLILDFSAVSFLDVSSVRGLKSL	697		
QY	672	RDYEATIGIQVLLAQCNPTVRDSLTNGEYCKKE--EENLLFVSVTEAMAFAEVSKN	724		
DB	698	OEPIRKVDVYIVGTDDTEKLNRYEFPDGEYKSSIFFTHIDAVLHILMKKD	751		

RESULT 10  
US-09-875-811-10  
; Sequence 10, Application US/09875811  
; Patent No. 6703495  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Scoville, John

```

; TITLE OF INVENTION: No. 6703495el Human Transporter Proteins and Polynucleotides Enc
;
; TITLE OF INVENTION: Same
;
; FILE REFERENCE: LEX-0186-USA
;
; CURRENT APPLICATION NUMBER: US/09/875,811

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; CURRENT FILING DATE: 2001-06-06  
; PRIOR APPLICATION NUMBER: US 60/210,045  
; PRIOR FILING DATE: 2000-06-07  
; NUMBER OF SEQ ID NOS: 13  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 2  
; LENGTH: 679  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-875-811-2

Query Match 23.8%; Score 896.5; DB 2; Length 679;  
Best Local Similarity 31.9%; Pred. No. 9.3e-82;  
Matches 204; Conservative 137; Mismatches 267; Indels 31; Gaps 8;  
  
QY 93 LPVLQWLKPKYDILKQNLGDMVMSGLVILLVPOSTAYSLLAGQEPVYGLYTFSPFIIVF 152  
DB 32 LPILDWAPHNKLKENLLPDTVSGIMLAVQOVTQGLAFVLSVHPVFGYGLSLFPAIIYA 91  
  
QY 153 LGLTSRHSISVGI FGVLCMLIGETVDRLEQKAGYDNHSAAPSGLMVSNGSTLLNHTSDRIC 212  
DB 92 IFGMGHVATGTFALTSLISANAVEKIVPQ-----NMQLTQTSNTSVL-----GLS 138  
  
QY 213 DKSCVAIMVGSTVTFIAGYQVAMGFFQVGFVSVVLSDALLSGFVTGASFTILTQAKYL 272  
DB 139 DFEMQRIHVAASVFLGVIQVAMFVLQGSATFVVTEPVISAMTTGAATHVVTQVKYL 198  
  
QY 273 LGLNLPRTNGVSLTITTHVHFRNHTKMLCDLITSLCLLVLLPTKELNEHFKSLKAP 332  
DB 199 LCMKPYISGPGFFYIYAVFENIKSVRLEALLSLISVVLVVKELNEQFKRKIKV 258  
  
QY 333 IPLELVVVAATLASHFGKLEHYNSSIAHGHTGFMPPKPEWNLIPSVAVDAIAISII 392  
DB 259 LPVDLVLIATAAFACVTWNTYGLVGVGHIPQIPSPRAPPMILLSAVITEAGVALV 318  
  
QY 393 GFATVLSLSEMPAKKHGYTVKANQEMYAIGFCNIIIPSFHCTTTSAALAKTLVKSGTCH 452  
DB 319 GYVASLALAQSAKFKYKSIDNQEFHAGLSNIVSSFFFCIPSAAMGRTAGLYSTGAK 378  
  
QY 453 TOLSGVTVALLVLLVLLVIAPIFYSLQKSLVGLVITVNLGALRKFRDLPKMSISRMDT 512  
DB 379 TOVACLISCFVLIIYIAGLPLVLPVLCVLAIIIVGLKGLMIIOPRDLKKNYVNDKIDW 438  
  
QY 513 VTFVMTLSSALLSTEIGLVGVCFISFCVILRTQKPKSSLLGLVESEVFSVSAYKNL 572  
DB 439 GIWSTVYFTICFAANVGLLFGVCTIAIVIGRP--PRANTVSIKNKEMEFKVKTEMDS 496  
  
QY 573 QTKPGIKIRFVAPLYYINKECFKSALYKQTVNPIILIKVAKKAARKKIKEKVTL----- 628  
DB 497 ETLOQVKIISINNPLVFLNAKFF---YTDLMNMIQKENACNQPLDDISKCEQNTLLNSL 552  
  
QY 629 --GGIQDENSVOLSHDPLHLVITVDCSAIOFLNTAGIHTLKEVRDYEAIGIOLVLAOC 686  
DB 553 SNGNCNBEASQSC---PNEKCYLILDCSGFTTFDYSVSMLEVYVMDCKGRSDVLLAHC 609  
  
QY 687 NPTVDSLNGBYCKKEENLLFYSVYEAAMAEYSKNQ 725  
DB 610 TASLIKAMT--YGNLDSEKPIFFESVSA-AISHIHSNK 645

RESULT 13  
US-10-094-749-2440  
; Sequence 2440, Application US/10094749  
; Patent No. 6979557  
; GENERAL INFORMATION:  
; APPLICANT: ISOGAI, TAKAO  
; APPLICANT: SUGIYAMA, TOMOYASU  
; APPLICANT: OTSUKI, TETSUJI  
; APPLICANT: WAKAMATSU, AI  
; APPLICANT: SATO, HIROYUKI  
; APPLICANT: ISHII, SHIZUKO  
; APPLICANT: YAMAMOTO, JUN-ICHI  
; APPLICANT: ISONO, YUUKO

; APPLICANT: HIO, YURI  
; APPLICANT: OTSUKA, KAORU  
; APPLICANT: NAGAI, KEIICHI  
; APPLICANT: IRIE, RYOTARO  
; APPLICANT: TAMECHIKA, ICHIRO  
; APPLICANT: SEKI, NAOHICO  
; APPLICANT: YOSHIKAWA, TSUTOMU  
; APPLICANT: OTSUKA, MOTOTYUKI  
; APPLICANT: NAGAHARI, KENJI  
; APPLICANT: MASUHO, YASUHIKO  
; TITLE OF INVENTION: NOVEL FULL-LENGTH CDNA  
; FILE REFERENCE: 084335/0160  
; CURRENT APPLICATION NUMBER: US/10/094,749  
; CURRENT FILING DATE: 2002-03-12  
; PRIOR APPLICATION NUMBER: 60/350,435  
; PRIOR FILING DATE: 2002-01-24  
; PRIOR APPLICATION NUMBER: JP 2001-328381  
; PRIOR FILING DATE: 2001-09-14  
; NUMBER OF SEQ ID NOS: 3381  
; SOFTWARE: Patent In Ver. 2.1  
; SEQ ID NO 2440  
; LENGTH: 651  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-094-749-2440  
  
Query Match 22.7%; Score 855.5; DB 2; Length 651;  
Best Local Similarity 27.5%; Pred. No. 1.3e-77;  
Matches 194; Conservative 133; Mismatches 183; Indels 195; Gaps 8;  
  
QY 79 QCSPAKXNMILGFLPVLQWLKPKYDLKKNILGDMVMSGLVILLVPOSIAYSLLAGQEPV 138  
DB 61 QCSRARAVALLQHLPLVLPVPRVDRWLLDGLSLGSLVAIMQLPQGLAYALLAGLPPV 120  
  
QY 139 YGLTSPFASIIYELGTSRHSISVGI FGVLCMLIGETVDRLEQKAGYDNHSAAPSGLMVS 198  
DB 121 FGLYSSFPVFIYFLGTSRRISVVL----- 146  
  
QY 199 NGSTLLNHTSDRICDKSCVAIMVGSTVTFIAGYQVAMGFFQVGFVSVVLSDALLSGFVT 258  
DB 147 -----EVCWK----- 151  
  
QY 259 GASFTILTQAKYLLGLNLPRTNVGSLLTTHVHFRNHTKMLCDLITSLCLLVLLPT 318  
DB 152 -----LPQSK-VGT-----VVTAAVAGVVLVV 173  
  
QY 319 KELNEHFKSLKAPITPIELVVVAATLASHFGKLEHYNSSIAHGHTGFMPPKPEWNL 378  
DB 174 KLLNDKLOOQQLPMPPIGBELLTIGATGISYGMGLKHFEDVDVVGNI PAGLVPVPAINTOL 233  
  
QY 379 IPSVAVDAIAISIIIGFAITVLSLSEMPAKKHGYTVKANQEMYAIGFCNIIIPSFHCTTSA 438  
DB 234 FSKLVGSFTIAVGVFAISLGIKISALRHGVRVDSNQELVALGSLNLIGGIFQCFPVSC 293  
  
QY 439 ALAKTLVKESGCHTQSLGVTVALLVLLVIAPIFYSLQKSLVGLVITVNLGALRK 498  
DB 294 SMSRLVQESTGNSQVAGAISSIFILLIIVKLGEFLHDLPKAVLAAIIIVNLKGLROL 353  
  
QY 499 RDLPKWMSISRMDTVIFWFTVMTLSSALLSTEIGLVGVCFISFCVILRTQKPKSSLLGLVE 558  
DB 354 SDRSLWKANRADLLIWLVTFTATILLNLDLGLVAVIFSLLLVVRTQMPHYSLVGLQVP 413  
  
QY 559 ESEVFESVSAYKNLQTKPGIKIRFVAPLYYINKECFKSALYKQTVNPIILIKVAKK----- 615  
DB 414 DTDIYRDVAEYSEAKEVRGVKVRSSATVYFANAIFYSDALKQRCGVDDVFLISQKKLL 473  
  
QY 616 -----AAKKKIKEKVTLGGIQDENSVQLSHDPL----- 644  
DB 474 KKQEQLKLQLOKEEKLKQAAKSPKASGVSNVNTSLEDMSRNNVEDCKQMVSSGDKMED 533  
  
QY 645 -----ELHTIVIDCSAIOFLNTAGIHTLKEVRDYEAIGI 679  
DB 534 ATANGQEDSKAPDGGSTLKAALGLPQDPDFSLILDGLGALSFVDIVCLKSLKNIHFDPREIEV 593



OY 690 QVLLAQCNPVTRDSTNGEY-----CKKEENLLFYSVYEAFA 719  
 Db 594 EVYNAACHSPVVSQLEAGHFFDASITKCH-----LFASVHDATVFA 634

RESULT 14

US-09-875-811-12  
 ; Sequence 12, Application US/09875811  
 ; Patent No. 6703495  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; APPLICANT: Scoville, John  
 ; TITLE OF INVENTION: No. 6703495el Human Transporter Proteins and Polynucleotides Enc  
 ; FILE REFERENCE: LEX-0186-USA  
 ; CURRENT APPLICATION NUMBER: US/09/875,811  
 ; PRIOR FILING DATE: 2001-06-06  
 ; PRIOR APPLICATION NUMBER: US 60/210,045  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 12  
 ; LENGTH: 598  
 ; TYPE: PRT  
 ; ORGANISM: homo sapiens  
 ; US-09-875-811-12

Query Match 21.9%; Score 826.5; DB 2; Length 598;  
 Best Local Similarity 30.2%; Pred. No. 1e-74;  
 Matches 191; Conservative 131; Mismatches 234; Indels 77; Gaps 10;

OY 93 LPVLOWLPKYDLKQNLIGDVMGSLIVGILLVQPSIAYSLLAGQEPVYGLYTSFFASIIYP 152  
 Db 32 LPILDWAPHYLNKENLLPDTVSGIMLAVQOVTQGLAFVLSVHPVFGLYGSLFFAIIVA 91  
 OY 153 LGTSRHSISVGI FGVLCIMIGETVDRELQKAGYDNAHSAPSLGMVSNSTLLNHTSDRIC 212  
 Db 92 IFGMGHVATGTFALTSLISANAVRIVPQ-----NMQNLTTQNTSVL-----GLS 138  
 OY 213 DKSCYAIMVGSVTFTIAGYQVAMGFQVGVFVSVYLSALLSGFVTGASFTILTQAKYL 272  
 Db 139 DFEMORIHVAAAVSFLGGVIOVAMFVLQSGATFVVTPVISAMTTGAATHVVTQVKYL 198  
 OY 273 LGLNLPRTNGVSLITTWIHFNRHNTKLNCLDITSLCLLVLPTELNEHFKSLKAP 332  
 Db 199 LGMKPYISGPGFFIYAYVFENIKSVRLKALLLSLIVLVKELNEQFKRKIVV 258  
 OY 333 IPIELVVVVAATLASHFGKLNHNSIAGHIPTGFMPKVPKPEWNLIPSAVDAIAISII 392  
 Db 259 LPVDLVLIIAASFACYCTNMNTYGLVGVGHIPQIPSPRAPPNNILSAVITEAFGVAV 318  
 OY 393 GFALTVLSSEMFARKHGYTVKANQEMVYAGFCNIIIPSFHCFHTTSAALAKTLVKESTGCH 452  
 Db 319 GYVASLALAQSAKFKYISDDNOEFLAHGLSNIVSSFFCIPSAAMGRTAGLYSTGAK 378  
 OY 453 TQLSGVVTALVLLVLIAPLFYSLOKSVLGVITIVNLGALKRFRDLPKMWSISRMDT 512  
 Db 379 TVACLISCFVLIVIAIGPLLYWPCVLSIIVVGLKGMILQFRLDKKYNVDKID- 437  
 OY 513 VIVFVTMLSSALLSTEIGLLVGVCFSIFCVILRTQKPKSSLGLLVESEVSESVAYKNL 572  
 Db 438 ---WGTLQVKKIISINNPL-----VFLNAKKFYTDLMNMIQENACNQ----- 477  
 OY 573 QTRPGIKIFRFVAPLYYINKECFKSAIYKQTVNPILIKVAKKAAKRKIKEKVVTLGGIQ 632  
 Db 478 -----PLDDISK-CEQNTLLNSLN-----GNCN 500  
 OY 633 DEMSVOLSHDPELHTIVIDCSAIOFLNTAGIHTLKEVRDYBAIGIQVLLAQCNPVTRD 692  
 Db 501 EEASQSC---PNEKCYLILDCSGFTFFDYSGVSMLEVYMDCKGRSDVLLAHCTASLIK 557  
 OY 693 SLTNGEYCKKEENLLFYSVYEAFAFEVSKN 724

Db 558 AMT--YYGNDSEKPIFFESVSAASHIHSNKN 588

RESULT 15

US-09-875-811-8  
 ; Sequence 8, Application US/09875811  
 ; Patent No. 6703495  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Walke, D. Wade  
 ; APPLICANT: Scoville, John  
 ; TITLE OF INVENTION: No. 6703495el Human Transporter Proteins and Polynucleotides E  
 ; FILE REFERENCE: LEX-0186-USA  
 ; CURRENT APPLICATION NUMBER: US/09/875,811  
 ; PRIOR FILING DATE: 2001-06-06  
 ; PRIOR APPLICATION NUMBER: US 60/210,045  
 ; NUMBER OF SEQ ID NOS: 13  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 8  
 ; LENGTH: 605  
 ; TYPE: PRT  
 ; ORGANISM: homo sapiens  
 ; US-09-875-811-8

Query Match 21.8%; Score 822.5; DB 2; Length 605;  
 Best Local Similarity 29.9%; Pred. No. 2.6e-74;  
 Matches 189; Conservative 131; Mismatches 236; Indels 77; Gaps 10;

OY 93 LPVLOWLPKYDLKQNLIGDVMGSLIVGILLVQPSIAYSLLAGQEPVYGLYTSFFASIIYP 152  
 Db 32 LPILDWAPHYLNKENLLPDTVSGIMLAVQOVTQGLAFVLSVHPVFGLYGSLFFAIIVA 91  
 OY 153 LGTSRHSISVGI FGVLCIMIGETVDRELQKAGYDNAHSAPSLGMVSNSTLLNHTSDRIC 212  
 Db 92 IFGMGHVATGTFALTSLISANAVRIVPQ-----NMQNLTTQNTSVL-----GLS 138  
 OY 213 DKSCYAIMVGSVTFTIAGYQVAMGFQVGVFVSVYLSALLSGFVTGASFTILTQAKYL 272  
 Db 139 DFEMORIHVAAAVSFLGGVIOVAMFVLQSGATFVVTPVISAMTTGAATHVVTQVKYL 198  
 OY 273 LGLNLPRTNGVSLITTWIHFNRHNTKLNCLDITSLCLLVLPTELNEHFKSLKAP 332  
 Db 199 LGMKPYISGPGFFIYAYVFENIKSVRLKALLLSLIVLVKELNEQFKRKIVV 258  
 OY 333 IPIELVVVVAATLASHFGKLNHNSIAGHIPTGFMPKVPKPEWNLIPSAVDAIAISII 392  
 Db 259 LPVDLVLIIAASFACYCTNMNTYGLVGVGHIPQIPSPRAPPNNILSAVITEAFGVAV 318  
 OY 393 GFALTVLSSEMFARKHGYTVKANQEMVYAGFCNIIIPSFHCFHTTSAALAKTLVKESTGCH 452  
 Db 319 GYVASLALAQSAKFKYISDDNOEFLAHGLSNIVSSFFCIPSAAMGRTAGLYSTGAK 378  
 OY 453 TQLSGVVTALVLLVLIAPLFYSLOKSVLGVITIVNLGALKRFRDLPKMWSISRMDT 512  
 Db 379 TVACLISCFVLIVIAIGPLLYWPCVLSIIVVGLKGMILQFRLDKKYNVDKID- 437  
 OY 513 VIVFVTMLSSALLSTEIGLLVGVCFSIFCVILRTQKPKSSLGLLVESEVSESVAYKNL 572  
 Db 438 ---WGTLQVKKIISINNPL-----VFLNAKKFYTDLMNMIQENACNQ----- 477  
 OY 573 QTRPGIKIFRFVAPLYYINKECFKSAIYKQTVNPILIKVAKKAAKRKIKEKVVTLGGIQ 632  
 Db 478 -----PLDDISK-CEQNTLLNSLN-----GNCN 500  
 OY 633 DEMSVOLSHDPELHTIVIDCSAIOFLNTAGIHTLKEVRDYBAIGIQVLLAQCNPVTRD 692  
 Db 501 EEASQSC---PNEKCYLILDCSGFTFFDYSGVSMLEVYMDCKGRSDVLLAHCTASLIK 557  
 OY 693 SLTNGEYCKKEENLLFYSVYEAFAFEVSKN 725  
 Db 558 AMT--YYGNDSEKPIFFESVSAASHIHSNKN 587

us-10-736-461-1.rai

Thu Dec 21 15:57:50 2006

Search completed: December 20, 2006, 04:59:32  
Job time : 54 secs

GenCore version 5.1.9  
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OW protein - protein search, using sw model.

Run on: December 20, 2006, 04:58:50 ; Search time 185 Seconds  
(without alignments)  
1850.356 Million cell updates/sec

Title: US-10-736-461-1  
Perfect score: 3774  
Sequence: 1 MSSESKEQHNVSPRDSAEGN.....EVSNNQKVCVPNGLSLSSD 739

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 2097797 seqs, 463214858 residues

Total number of hits satisfying chosen parameters: 2097797

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA.Main:  
1: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*  
2: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US08\_PUBCOMB.pep:\*  
3: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*  
4: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*  
5: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*  
6: /EMC\_Celerra\_SIDS3/ptodata/2/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3774	100.0	739	4	US-10-736-461-1
2	3769	99.9	739	4	US-10-205-823-369
3	3769	99.9	739	4	US-10-328-194A-3
4	3769	99.9	739	5	US-10-505-263-96
5	3769	99.9	739	6	US-11-051-454-369
6	3095	82.0	739	5	US-10-505-263-12
7	2561	67.9	506	3	US-09-864-761-46512
8	1853	49.1	719	5	US-10-505-263-87
9	1718	45.5	704	5	US-10-505-263-10
10	1667.5	44.2	701	3	US-09-803-670-2
11	1656.5	43.9	701	3	US-09-803-670-4
12	1627	43.1	698	5	US-10-343-903-13
13	1314.5	34.8	633	3	US-09-813-432-14
14	1314.5	34.8	633	4	US-10-174-364-14
15	1314.5	34.8	633	4	US-10-246-583-14
16	1314.5	34.8	633	4	US-10-689-832-14
17	1252	33.2	435	3	US-09-813-432-48
18	1252	33.2	435	4	US-10-174-364-48
19	1252	33.2	435	4	US-10-246-583-48
20	1252	33.2	435	4	US-10-689-832-48
21	1240	32.9	744	4	US-10-420-495-1
22	1234.5	32.7	744	4	US-10-420-495-3
23	1202	31.8	735	5	US-10-505-263-89
24	1181	31.3	780	5	US-10-631-467-3
25	1181	31.3	780	5	US-10-631-467-667
26	1181	31.3	790	4	US-10-295-027-930
27	1178	31.2	780	4	US-10-420-495-11

28	1160.5	30.7	780	5	US-10-631-467-14
29	1160.5	30.7	780	5	US-10-631-467-1456
30	1149	30.4	718	4	US-10-282-511-88
31	1135.5	30.1	769	5	US-10-505-263-83
32	1129	29.9	778	5	US-10-505-263-81
33	1124.5	29.8	758	5	US-10-505-263-6
34	1123.5	29.8	735	5	US-10-505-263-8
35	1110.5	29.4	788	5	US-10-505-263-85
36	1104	29.3	758	5	US-10-505-263-2
37	1103.5	29.2	714	3	US-09-749-589-4
38	1103.5	29.2	714	5	US-10-684-532-4
39	1103.5	29.2	738	5	US-10-505-263-4
40	1103.5	29.2	4115	4	US-10-038-854-4
41	1100.5	29.2	751	3	US-09-795-693-14
42	1100.5	29.2	751	4	US-10-156-239-14
43	1100.5	29.2	751	4	US-10-199-485-14
44	1088.5	28.8	753	5	US-10-505-263-91
45	1056.5	28.0	764	3	US-09-981-353-73

ALIGNMENTS

RESULT 1  
US-10-736-461-1  
; Sequence 1, Application US/10736461  
; Publication No. US20040166517A1  
; GENERAL INFORMATION:  
; APPLICANT: Terrett, Jonathan A  
; TITLE OF INVENTION: CANCER ASSOCIATED PROTEIN  
; FILE REFERENCE: 2543-1-034  
; CURRENT APPLICATION NUMBER: US/10/736.461  
; CURRENT FILING DATE: 2003-12-15  
; PRIOR APPLICATION NUMBER: PCT/GB02/02779  
; PRIOR FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: GB 0114644.8  
; PRIOR FILING DATE: 2001-06-15  
; NUMBER OF SEQ ID NOS: 8  
; SOFTWARE: Patent in version 3.1  
; SEQ ID NO 1  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-736-461-1

Query Match	100.0%	Score	3774;	DB	4;	Length	739;
Best Local Similarity	100.0%	Pred. No.	3.7e-317;				
Matches	739;	Conservative	0;	Mismatches	0;	Indels	0;
Gaps	0;						
Qy	1	MSSESKEQHNVSPRDSAEGNDSYPSGTHLELQRESSTDFKQFETNDQCRPYHRLIERQE	60				
Db	1	MSSESKEQHNVSPRDSAEGNDSYPSGTHLELQRESSTDFKQFETNDQCRPYHRLIERQE	60				
Qy	61	KSDTNFKEFVKLKQKNCSPAKAKMILGFLPVLQWLPKYDLKKNILGDMVMSGLIYGI	120				
Db	61	KSDTNFKEFVKLKQKNCSPAKAKMILGFLPVLQWLPKYDLKKNILGDMVMSGLIYGI	120				
Qy	121	LLVPQSIAYSLAQCEPVYGLYTSFFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL	180				
Db	121	LLVPQSIAYSLAQCEPVYGLYTSFFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL	180				
Qy	181	QKAGYDNAHSAPSLGVMVSNSTLLNHTSDRI CDKSCYAIMVGSTVTFIAGYQVAMGPFQ	240				
Db	181	QKAGYDNAHSAPSLGVMVSNSTLLNHTSDRI CDKSCYAIMVGSTVTFIAGYQVAMGPFQ	240				
Qy	241	VGFVSIVLSALLSGFVGTGASFTILTQAKYLLGLNLPRTNGVGLSITTTWTHVFNHKT	300				
Db	241	VGFVSIVLSALLSGFVGTGASFTILTQAKYLLGLNLPRTNGVGLSITTTWTHVFNHKT	300				
Qy	301	NLCDLITSLCLLVLLPTKELNEHFKSKLKAPIELVVVAATLASHFGKLNHYNSSI	360				
Db	301	NLCDLITSLCLLVLLPTKELNEHFKSKLKAPIELVVVAATLASHFGKLNHYNSSI	360				

QY 361 AGHIPTGFMPPKVPENLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTVTKANOEMYA 420  
DB 361 AGHIPTGFMPPKVPENLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTVTKANOEMYA 420  
QY 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSGVVTALVLLVLLVIAPIFYSLQK 480  
DB 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSGVVTALVLLVLLVIAPIFYSLQK 480  
QY 481 SVLGVTITVNLRGALRKFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
DB 481 SVLGVTITVNLRGALRKFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
QY 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCECFKSALY 600  
DB 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCECFKSALY 600  
QY 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
DB 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
QY 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
DB 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
QY 721 VSKNQKGVCPVNGLSLSSD 739  
DB 721 VSKNQKGVCPVNGLSLSSD 739

## RESULT 2

US-10-205-823-369  
; Sequence 369, Application US/10205823  
; Publication No. US20030108963A1  
; GENERAL INFORMATION:  
; APPLICANT: Schlegel, Robert  
; APPLICANT: Monahan, John E.  
; APPLICANT: Endege, Wilson O.  
; APPLICANT: Gannavarapu, Manjula  
; APPLICANT: Gorbacheva, Bella  
; APPLICANT: Hoersch, Sebastian  
; APPLICANT: Kamatkar, Shubhangi  
; APPLICANT: Wonesey, Angela M.  
; APPLICANT: Glatt, Karen  
; APPLICANT: Zhao, Xumei  
; APPLICANT: Anderson, Dustin  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND  
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER  
; FILE REFERENCE: MRI-044  
; CURRENT APPLICATION NUMBER: US/10/205,823  
; PRIOR FILING DATE: 2002-07-25  
; PRIOR APPLICATION NUMBER: 60/307,982  
; PRIOR FILING DATE: 2001-07-25  
; PRIOR APPLICATION NUMBER: 60/314,356  
; PRIOR FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: 60/325,020  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 60/341,746  
; PRIOR FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: 60/362,158  
; PRIOR FILING DATE: 2002-03-05  
; NUMBER OF SEQ ID NOS: 455  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 369  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; US-10-205-823-369

Query Match 99.98; Score 3769; DB 4; Length 739;  
Best Local Similarity 99.98; Pred. No. 1.le-316;  
Matches 736; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSSESKEQHNVSAPRDSAEAGNDSPYSGIHLELQRESSTDFKQFETNDOCRPYHRIILIERQE 60  
DB 1 MSSESKEQHNVSAPRDSAEAGNDSPYSGIHLELQRESSTDFKQFETNDOCRPYHRIILIERQE 60  
QY 61 KSDTNPKFVYIKLQKNCOCSPAKAKNMILGFLPVLOWLPKYDLKKNILGDNVMSGLIVGI 120  
DB 61 KSDTNPKFVYIKLQKNCOCSPAKAKNMILGFLPVLOWLPKYDLKKNILGDNVMSGLIVGI 120  
QY 121 LLVPOQSIAYSLLAGQBPVYGLVTSFPASIIYPLLGTSRHSISVGIFGVLCIMIGETVDREL 180  
DB 121 LLVPOQSIAYSLLAGQBPVYGLVTSFPASIIYPLLGTSRHSISVGIFGVLCIMIGETVDREL 180  
QY 181 OKAGYDNAHSAPSLGMVSNGSTLLNHTSDRI CDKSCYAIMVGSVTFTFIAGVYOVAMGFFQ 240  
DB 181 OKAGYDNAHSAPSLGMVSNGSTLLNHTSDRI CDKSCYAIMVGSVTFTFIAGVYOVAMGFFQ 240  
QY 241 VGFVSVYLLSDALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSIIITWIIHVFRNIHKT 300  
DB 241 VGFVSVYLLSDALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSIIITWIIHVFRNIHKT 300  
QY 301 NLCDLITSLCLLVLLPTKELNEHPKSLKAPIPIELVVVVAATLASHFGKLGHNYSII 360  
DB 301 NLCDLITSLCLLVLLPTKELNEHPKSLKAPIPIELVVVVAATLASHFGKLGHNYSII 360  
QY 361 AGHIPTGFMPPKVPENLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTVTKANOEMYA 420  
DB 361 AGHIPTGFMPPKVPENLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGTVTKANOEMYA 420  
QY 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSGVVTALVLLVLLVIAPIFYSLQK 480  
DB 421 IGFCNIIPSPFFHCFTTSAALAKTLVKESTGCHTQSGVVTALVLLVLLVIAPIFYSLQK 480  
QY 481 SVLGVTITVNLRGALRKFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
DB 481 SVLGVTITVNLRGALRKFRDLPKWMSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
QY 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCECFKSALY 600  
DB 541 CVILRTQPKSSLLGLVEEVEFVSAYKNLQTKPGIKIFRFVAPLYYINKCECFKSALY 600  
QY 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
DB 601 KQTVNPILIKVAMKAAKRIKEKVTLGGIQDMSVOLSHDPLELHTIVIDCSAIOFLN 660  
QY 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
DB 661 TAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDLSLTNGEYCKKEENLLFYSVYEAMAFAE 720  
QY 721 VSKNQKGVCPVNGLSLSSD 739  
DB 721 VSKNQKGVCPVNGLSLSSD 739

## RESULT 3

US-10-328-194A-3  
; Sequence 3, Application US/10328194A  
; Publication No. US20030194728A1  
; GENERAL INFORMATION:  
; APPLICANT: Klien, Stefanie  
; APPLICANT: Koshiy, Beena  
; APPLICANT: Tanguay, Debra  
; TITLE OF INVENTION: HAPLOTYPES OF THE SLC26A2 GENE  
; FILE REFERENCE: MWH 0849US  
; CURRENT APPLICATION NUMBER: US/10/328,194A  
; CURRENT FILING DATE: 2002-12-23  
; PRIOR APPLICATION NUMBER: PCT/US01/20028  
; PRIOR FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: US 60/213,284  
; PRIOR FILING DATE: 2000-06-22  
; NUMBER OF SEQ ID NOS: 26  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 3:  
; LENGTH: 739

; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-328-194A-3

Query Match 99.9%; Score 3769; DB 4; Length 739;  
Best Local Similarity 99.9%; Pred. No. 1.1e-316;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MSSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPYHRLIERQE 60  
Db 1 MSSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPYHRLIERQE 60  
Qy 61 KSDTNFKEFVTKLQKNCQCSAPAKAKNMILGFLPVLQWLPKYDILKKNILGDMVMSGLI VGI 120  
Db 61 KSDTNFKEFVTKLQKNCQCSAPAKAKNMILGFLPVLQWLPKYDILKKNILGDMVMSGLI VGI 120  
Qy 121 LLVPOSAYSLLAQOEPVGYLTSPFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Db 121 LLVPOSAYSLLAQOEPVGYLTSPFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Qy 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICDKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Db 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICDKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Qy 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSLLITTHVFRNIHKT 300  
Db 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSLLITTHVFRNIHKT 300  
Qy 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVVAATLASHFGKLEHYNSSI 360  
Db 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVVAATLASHFGKLEHYNSSI 360  
Qy 361 AGHIPTGMPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQEMYA 420  
Db 361 AGHIPTGMPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQEMYA 420  
Qy 421 IGFCNIIIPSPFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Db 421 IGFCNIIIPSPFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Qy 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
Db 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
Qy 541 CVILRTQPKSSLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Db 541 CVILRTQPKSSLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Qy 601 KQTVNPILIKVAKKAARKKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Db 601 KQTVNPILIKVAKKAARKKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Qy 661 TAGIHTLKEVRDYEAIGIOVLLAQCNPTVRDLSLTNGEYCKKEBENLLFYSVYEMAFAE 720  
Db 661 TAGIHTLKEVRDYEAIGIOVLLAQCNPTVRDLSLTNGEYCKKEBENLLFYSVYEMAFAE 720  
Qy 721 VSKNQKGVCPNGLSLSSD 739  
Db 721 VSKNQKGVCPNGLSLSSD 739

RESULT 4

US-10-505-263-96  
; Sequence 96, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS

RESULT 5

; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; PRIOR FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: Patent in version 3.2  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-505-263-96  
Query Match 99.9%; Score 3769; DB 5; Length 739;  
Best Local Similarity 99.9%; Pred. No. 1.1e-316;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MSSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPYHRLIERQE 60  
Db 1 MSSSEKQHNVSPRDSAEAGNDSPSGIHLELQRESSTDFKQFETNDQCRPYHRLIERQE 60  
Qy 61 KSDTNFKEFVTKLQKNCQCSAPAKAKNMILGFLPVLQWLPKYDILKKNILGDMVMSGLI VGI 120  
Db 61 KSDTNFKEFVTKLQKNCQCSAPAKAKNMILGFLPVLQWLPKYDILKKNILGDMVMSGLI VGI 120  
Qy 121 LLVPOSAYSLLAQOEPVGYLTSPFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Db 121 LLVPOSAYSLLAQOEPVGYLTSPFASIIYFLLGTSRHSISVGIFGVLCMLIGETVDREL 180  
Qy 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICDKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Db 181 QKAGYDNAHSAPSLGMVNSGSTLNHTSDRICDKSCYAIMVGSTVTFIAGVYQVAMGPFQ 240  
Qy 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSLLITTHVFRNIHKT 300  
Db 241 VGFVSVYLSALLSGFVTGASFTILTQAKYLLGLNLPRTNGVGSLLITTHVFRNIHKT 300  
Qy 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVVAATLASHFGKLEHYNSSI 360  
Db 301 NLCDLITSLCLLVLLPTKELNEHFKSKLAPIELVVVVAATLASHFGKLEHYNSSI 360  
Qy 361 AGHIPTGMPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQEMYA 420  
Db 361 AGHIPTGMPKVPENNLIPSAVDAIAISIIIGFAITVSLSEMPAKKHGYTVKANQEMYA 420  
Qy 421 IGFCNIIIPSPFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Db 421 IGFCNIIIPSPFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPIFYSLQK 480  
Qy 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
Db 481 SVLGVIITVNLRGALRKFRDLPKMWISIRMDTVIWFVTMLSSALLSTEIGLLVGVCFISIF 540  
Qy 541 CVILRTQPKSSLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Db 541 CVILRTQPKSSLGLVESEVFSVSAKYNLQTKPGIKIPRFVAPLYYINKECFKSALY 600  
Qy 601 KQTVNPILIKVAKKAARKKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Db 601 KQTVNPILIKVAKKAARKKIKEKVVTLLGGIODEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Qy 661 TAGIHTLKEVRDYEAIGIOVLLAQCNPTVRDLSLTNGEYCKKEBENLLFYSVYEMAFAE 720  
Db 661 TAGIHTLKEVRDYEAIGIOVLLAQCNPTVRDLSLTNGEYCKKEBENLLFYSVYEMAFAE 720  
Qy 721 VSKNQKGVCPNGLSLSSD 739  
Db 721 VSKNQKGVCPNGLSLSSD 739

US-11-051-454-369  
; Sequence 369, Application US/11051454  
; Publication No. US20050191673A1  
; GENERAL INFORMATION:  
; APPLICANT: Schlegel, Robert  
; APPLICANT: Monahan, John E.  
; APPLICANT: Endege, Wilson O.  
; APPLICANT: Gannavarapu, Manjula  
; APPLICANT: Gorbacheva, Bella  
; APPLICANT: Hoersch, Sebastian  
; APPLICANT: Kamatkar, Shubhangi  
; APPLICANT: Monsey, Angela M.  
; APPLICANT: Glatt, Karen  
; APPLICANT: Zhao, Xumei  
; APPLICANT: Anderson, Dustin  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND  
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER  
; FILE REFERENCE: MRI-044  
; CURRENT APPLICATION NUMBER: US/11/051,454  
; PRIOR FILING DATE: 2005-02-04  
; PRIOR APPLICATION NUMBER: US/10/205,823  
; PRIOR FILING DATE: 2002-07-25  
; PRIOR APPLICATION NUMBER: 60/307,982  
; PRIOR FILING DATE: 2001-07-25  
; PRIOR APPLICATION NUMBER: 60/314,356  
; PRIOR FILING DATE: 2001-08-22  
; PRIOR APPLICATION NUMBER: 60/325,020  
; PRIOR FILING DATE: 2001-09-25  
; PRIOR APPLICATION NUMBER: 60/341,746  
; PRIOR FILING DATE: 2001-12-12  
; PRIOR APPLICATION NUMBER: 60/362,158  
; PRIOR FILING DATE: 2002-03-05  
; NUMBER OF SEQ ID NOS: 455  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 369  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-051-454-369

Query Match 99.9%; Score 3769; DB 6; Length 739;  
Best Local Similarity 99.9%; Pred. No. 1.1e-316;  
Matches 738; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MSSESKEQHNVS PRDS AEGNDSYPSG IHLQRESSTDFKQFETNDCRPHYLIEROE 60  
DB 1 MSSESKEQHNVS PRDS AEGNDSYPSG IHLQRESSTDFKQFETNDCRPHYLIEROE 60  
QY 61 KSDTNFKFVVKLQKNQCQSPAKAKNMILGFLPVLQWLPKYDLKKNILGDVMSGLIVGI 120  
DB 61 KSDTNFKFVVKLQKNQCQSPAKAKNMILGFLPVLQWLPKYDLKKNILGDVMSGLIVGI 120  
QY 121 LVPQSIAYSLLAGQEPVGLYTSFPFASIIYFLGTSRHSISVGFVGLVCLMIGETVDREL 180  
DB 121 LVPQSIAYSLLAGQEPVGLYTSFPFASIIYFLGTSRHSISVGFVGLVCLMIGETVDREL 180  
QY 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWVGSTVTFIAGVYQVAMGFFQ 240  
DB 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWVGSTVTFIAGVYQVAMGFFQ 240  
QY 241 VGFVSVYLS DALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVGSLLTTHIWHFRNIHKT 300  
DB 241 VGFVSVYLS DALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVGSLLTTHIWHFRNIHKT 300  
QY 301 NLCDLTSLCLLVLPKELNEHFKSKLAPPIELVWVVAATLASHFGKLNENYSSI 360  
DB 301 NLCDLTSLCLLVLPKELNEHFKSKLAPPIELVWVVAATLASHFGKLNENYSSI 360  
QY 361 AGHIPGFMPPKPEWNLIPSAVDAIAISIIIGFAITVLSLSEMFAKKHGYTVKANQEMYA 420  
DB 361 AGHIPGFMPPKPEWNLIPSAVDAIAISIIIGFAITVLSLSEMFAKKHGYTVKANQEMYA 420

QY 421 IGFCNIIPSFHCFHTTSAALAKTLVKESTGCHTQTSQVWVLTALVLLVLLVIAPIPLFYSLOK 480  
DB 421 IGFCNIIPSFHCFHTTSAALAKTLVKESTGCHTQTSQVWVLTALVLLVLLVIAPIPLFYSLOK 480  
QY 481 SVLGVTIIVNLRGALRKPRDLPKMWSISRMDTVIWFVTWLSALLSTELGLLVGVCFISF 540  
DB 481 SVLGVTIIVNLRGALRKPRDLPKMWSISRMDTVIWFVTWLSALLSTELGLLVGVCFISF 540  
QY 541 CVILRTQPKSSLGLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYYINKECPKSALY 600  
DB 541 CVILRTQPKSSLGLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYYINKECPKSALY 600  
QY 601 KOTVNPILIKVAKKAAKRIKEKVVTLGGIODEMSVQLSHDPLELHTTVIDCSAIOFLN 660  
DB 601 KOTVNPILIKVAKKAAKRIKEKVVTLGGIODEMSVQLSHDPLELHTTVIDCSAIOFLN 660  
QY 661 TAGIHTLKEVRDYEAIGIQVLLAOCNPTVRDLSLTNGEYCKKEENLLFVSYEAMAF 720  
DB 661 TAGIHTLKEVRDYEAIGIQVLLAOCNPTVRDLSLTNGEYCKKEENLLFVSYEAMAF 720  
QY 721 VSKNQKGVCPVNGLSLSSD 739  
DB 721 VSKNQKGVCPVNGLSLSSD 739  
RESULT 6  
US-10-505-263-12  
; Sequence 12, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS  
; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 12  
; LENGTH: 739  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-505-263-12  
Query Match 82.0%; Score 3095; DB 5; Length 739;  
Best Local Similarity 80.8%; Pred. No. 2.3e-258;  
Matches 597; Conservative 68; Mismatches 74; Indels 0; Gaps 0;  
QY 1 MSSESKEQHNVS PRDS AEGNDSYPSG IHLQRESSTDFKQFETNDCRPHYLIEROE 60  
DB 1 MSSENKEQHDLSPRDLPEEAFGFPSELPLETQRRSGTDLRQSETGHRGAFRRHIMELRE 60  
QY 61 KSDTNFKFVVKLQKNQCQSPAKAKNMILGFLPVLQWLPKYDLKKNILGDVMSGLIVGI 120  
DB 61 KPDTDIKQVIRELOKSCQCSAAKVRDGAFFPVLRLPKYDLKKNILGDVMSGLIVGI 120  
QY 121 LVPQSIAYSLLAGQEPVGLYTSFPFASIIYFLGTSRHSISVGFVGLVCLMIGETVDREL 180  
DB 121 LVPQSIAYSLLAGQEPVGLYTSFPFASIIYFLGTSRHSISVGFVGLVCLMIGETVDREL 180  
QY 181 QKAGYDHAAPS LGVMSNGSTLLNHTSDRICKSCYAIWVGSTVTFIAGVYQVAMGFFQ 240  
DB 181 HRACPDATDSSIAVFFSSGCVVWVHTLDGLCDKSCYAIKIGSTVTFIAGVYQVAMGFFQ 240  
QY 241 VGFVSVYLS DALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVGSLLTTHIWHFRNIHKT 300

Db 241 VGFVSVDALLSFGVGTASFTILTSQAKYLLGLSLRSHGVGVVITTHIFRNINT 300  
Qy 301 NLCDLITSLCLLVLLPTKELNEHFKSLKAPIPIELVVVAATLASHFGKLNHYNSSI 360  
Db 301 NICDLITSLCLLVLLPSKELNEHFKSLKAPIPVELIIVVAATLASHFGKLNHYNSSI 360  
Qy 361 AGHPTGMPKPKVPMNLIIPSVAVDAIAISIIIGFAITVLSLSEMFAGKHGYTVKANOEMYA 420  
Db 361 AGHPTGMPKPKVPMNLIIPSVAVDAIAISIIIGFAITVLSLSEMFAGKHGYTVKANOEMYA 420  
Qy 421 IGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPLFSYLOK 480  
Db 421 IGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAPLFSYLOK 480  
Qy 481 SVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLVGVCFPSIF 540  
Db 481 SVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLVGVCFPSIF 540  
Qy 541 CVILRTQPKSSLGLLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYIYNKECFKSAFY 600  
Db 541 CVILRTQPKSSLGLLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYIYNKECFKSAFY 600  
Qy 601 KOTVNPILIKVAKKAARKKIKEKVVTLLGGIQDEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Db 601 KALNPVLVKAARKKAARKKIKEKVVTLLGGIQDEMSVOLSHDPLELHTIVIDCSAIOFLN 660  
Qy 661 TAGIHTLKEVRDYEAGIQVLLAQCNPTRVDSLNTNGEYCKKEEENLLFYSVYAMAPAE 720  
Db 661 TAGIHTLKEVRDYEAGIQVLLAQCNPTRVDSLNTNGEYCKKEEENLLFYSVYAMAPAE 720  
Qy 721 VSKNQKGVCPVNGLSLSSD 739  
Db 721 DSONQKGVCPVNGLSLSSD 739

RESULT 7

US-09-864-761-46512  
; Sequence 46512, Application US/09864761  
; Patent No. US20020048763A1  
; GENERAL INFORMATION:  
; APPLICANT: Penn, Sharron G.  
; APPLICANT: Rank, David R.  
; APPLICANT: Hanzel, David K.  
; APPLICANT: Chen, Wensheng  
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
; FILE REFERENCE: Aecm1ca-X-1  
; CURRENT APPLICATION NUMBER: US/09/864,761  
; CURRENT FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: US 60/180,312  
; PRIOR FILING DATE: 2000-02-04  
; PRIOR APPLICATION NUMBER: US 60/207,456  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: US 09/632,366  
; PRIOR FILING DATE: 2000-08-03  
; PRIOR APPLICATION NUMBER: GB 24263.6  
; PRIOR FILING DATE: 2000-10-04  
; PRIOR APPLICATION NUMBER: US 60/236,359  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: PCT/US01/00666  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00667  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00664  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00669  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00665  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00668  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00662  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00661  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: PCT/US01/00670  
; PRIOR FILING DATE: 2001-01-30  
; PRIOR APPLICATION NUMBER: US 60/234,687  
; PRIOR FILING DATE: 2000-09-21  
; PRIOR APPLICATION NUMBER: US 09/608,408  
; PRIOR FILING DATE: 2000-06-30  
; PRIOR APPLICATION NUMBER: US 09/774,203  
; PRIOR FILING DATE: 2001-01-29  
; NUMBER OF SEQ ID NOS: 49117  
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1  
; SEQ ID NO 46512  
; LENGTH: 506  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; OTHER INFORMATION: MAP TO AC011406.1  
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 5.3  
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.97  
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2  
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.1  
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.93  
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 1.8  
; OTHER INFORMATION: EST HUMAN HIT: A1557282.1, EVALUE 1.00e-54  
; OTHER INFORMATION: SWISSPROT HIT: P50443, EVALUE 0.00e+00  
US-09-864-761-46512

Query Match 67.9%; Score 2561; DB 3; Length 506;  
Best Local Similarity 99.8%; Pred. No. 2.1e-212;  
Matches 505; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
Qy 234 VAMGFFQVGVSVYLSLSDALLSGFVTGASFTILTSQAKYLLGLNLPRNGVGSLLTTHV 293  
Db 1 VAMGFFQVGVSVYLSLSDALLSGFVTGASFTILTSQAKYLLGLNLPRNGVGSLLTTHV 60  
Qy 294 FRNHTNLCDLITSLCLLVLLPTKELNEHFKSLKAPIPIELVVVAATLASHFGKLNH 353  
Db 61 FRNHTNLCDLITSLCLLVLLPTKELNEHFKSLKAPIPIELVVVAATLASHFGKLNH 120  
Qy 354 ENTNSSIAGHIPTGMPKPKVPMNLIIPSVAVDAIAISIIIGFAITVLSLSEMFAGKHGYTVK 413  
Db 121 ENTNSSIAGHIPTGMPKPKVPMNLIIPSVAVDAIAISIIIGFAITVLSLSEMFAGKHGYTVK 180  
Qy 414 ANQEMVAIGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAP 473  
Db 181 ANQEMVAIGFCNIIIPSFHCFTTSAALAKTLVKESTGCHTQSLSGVVTALVLLVLLVIAP 240  
Qy 474 LFYSLOKSVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLV 533  
Db 241 LFYSLOKSVLGVTITVNLRGALRKFRDLPKMWISIRMDTVIMFVTMLSSALLSTIGLLV 300  
Qy 534 GVCFSIFCVILRTQPKSSLGLLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYIYNKE 593  
Db 301 GVCFSIFCVILRTQPKSSLGLLVESEVFESVSAYKNLQTKPGIKIFRVPAPLYIYNKE 360  
Qy 594 CFKSAFYKQTVNPILIKVAKKAARKKIKEKVVTLLGGIQDEMSVOLSHDPLELHTIVIDC 653  
Db 361 CFKSAFYKQTVNPILIKVAKKAARKKIKEKVVTLLGGIQDEMSVOLSHDPLELHTIVIDC 420  
Qy 654 SAIOFLNTAGIHTLKEVRDYEAGIQVLLAQCNPTRVDSLNTNGEYCKKEEENLLFYSVY 713  
Db 421 SAIOFLNTAGIHTLKEVRDYEAGIQVLLAQCNPTRVDSLNTNGEYCKKEEENLLFYSVY 480  
Qy 714 EAMAFAEVSKNQKGVCPVNGLSLSSD 739  
Db 481 EAMAFAEVSKNQKGVCPVNGLSLSSD 506

## RESULT 8

US-10-505-263-87  
; Sequence 87, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS  
; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 87  
; LENGTH: 719  
; TYPE: PRT  
; ORGANISM: Xenopus laevis  
US-10-505-263-87

Query Match 49.1%; Score 1853; DB 5; Length 719;  
Best Local Similarity 50.8%; Pred. No. 6.4e-151; Indels 32; Gaps 8;  
Matches 364; Conservative 139; Mismatches 181;  
QY 25 SGHLELORESSTDPKQFETNDQCPYHILIERQEKSDTNFKEFVIKKLQKNCOCSPAK 84  
DB 3 NAVNMKYEQES-----KMEDESOHTLHLERKATNRVSLCKTVKAKVKQCTCNSQ 55  
QY 85 AKNMILGFLVPLQWLPKYDLKNLIGDVMGSLIIVGILLVQSIAYSLLAGQBPVGLYTS 144  
DB 56 LKKTGTFPPVLRWLPKYDFKENTWGDVMSGLIIGIILVPOAIAYSLLAGLPIYSLYTS 115  
QY 145 FFASTIYFLGTSRHISVGIQVLCIMIGETVDRELQKAGYD-NAHSAFSLGWSVNSTL 203  
DB 116 FFASTIYFLGTSRHISVGIQVLCIMIGETVDRELQKAGYD-NAHSAFSLGWSVNSTL 173  
QY 204 LNHT-----SDRICDKSVAIMVGTSTVTFIAGVYQVAMGFFQGVSVVYLSDALIS 254  
DB 174 LNITRSINISMLMDIECKEYVAISVAAILTFAGIYQVIMGSFRLGFLMYLSEPMID 233  
QY 255 GFVTGASFTILTSQAKYLLGLNLPRTNVGVSLITTWIHFVNRHNTKLNCDLITSLCLLV 314  
DB 234 GPATGASLTILTAQVKYLLGIKIPRSPGIGMLVTTWYNIFFANIHHSNYCDIITSATCIAV 293  
QY 315 LPTKELNEHFYSKLKAPIDIELVVVVAATLASHFCKLHENYNSSTAGHIPGEMPPKVP 374  
DB 294 LVAAXEIGORYKEKIKIPIELTVLVIVATVWSHYCNLKEVGSVGVIPGFIPOVP 353  
QY 375 EWNLPISVAVDAIAISIIIFAITVLSSEMFAGKHGYTVKANOMYAIAGFCNIIPSPFHCF 434  
DB 354 NFSLFGKIADAIPLAVISFAFTIISSEMFAGKHGYTVKANOMYAIAGFCNIIPSPFHCF 413  
QY 435 TTSAAKATLVKSTCTHQLSGVTVLVLLVLLVIAPIFLYSQKSLGVITVNLRG 494  
DB 414 ATSAALAKTLVKTSTGCMQVSSVISAIVLVLLVLLVIAPIFLYSQKSLGVITVNLRG 473  
QY 495 LRKFRDLPKWMSISRMMDTWIWFVMTLSALLSTPEIGLLVGVCFISFCVILRTQKPKSSLL 554  
DB 474 LRKFRDLPTLWLNKIDAVVWCVTVAALVSTEVGLMVGIVFSLMCLILRSOLPYTTL 533  
QY 555 GLVESEVFSVSAKYNLQTKGKIKIFRFVAPLYINKECFKSALYKQ-TVNPIILKIAM 613  
DB 534 NQIEDTVFVEDCQYDNLNLPKVKIFRFSNPLHYANKGYFLKALPKMAAMDPLVNAQR 593  
QY 614 KK-----AAKRIKEKVTLGIGQDENSVQLSHDPLBLHTIVIDCSAIOFLNTAGIHT 666

DB 594 KMEKAKVQKQKQVDAANNLG--YGETQIELVEKRNLDLQTIILDCSCIAFLDITGNV 651  
QY 657 LKEVRDYEAIGICIVLLAQCNPTVRDSLTNGEYCKKEEN---LLFYSVYEMAF 719  
DB 652 LKGLLDYKEVQSVLLACCSSTVIDSLIRGGYFGKENSIDHKLFPYVHDVQFA 707  
RESULT 9  
US-10-505-263-10  
; Sequence 10, Application US/10505263  
; Publication No. US20060014940A1  
; GENERAL INFORMATION:  
; APPLICANT: Vanderbilt University  
; APPLICANT: Case Western Reserve University  
; APPLICANT: The Brigham and Women's Hospital, Inc.  
; APPLICANT: Mount, David B  
; APPLICANT: Romero, Michael  
; TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF SLC26A6, SLC26A1, and SLC26A2  
; TITLE OF INVENTION: ANION EXCHANGERS  
; FILE REFERENCE: 1242/50/2 PCT/US  
; CURRENT APPLICATION NUMBER: US/10/505,263  
; CURRENT FILING DATE: 2004-08-20  
; PRIOR APPLICATION NUMBER: US 60/360,275  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: PCT/US03/06469  
; PRIOR FILING DATE: 2003-02-28  
; NUMBER OF SEQ ID NOS: 96  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 10  
; LENGTH: 704  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-10-505-263-10

Query Match 45.5%; Score 1718; DB 5; Length 704;  
Best Local Similarity 48.2%; Pred. No. 3e-139;  
Matches 334; Conservative 145; Mismatches 182; Indels 32; Gaps 7;  
QY 54 ILIERQEKSDTNFKEFVIKKLQKNCOCSPAKAKMILGFLVPLQWLPKYDLKKNILGDM 113  
DB 15 VLVRRQPPVSGQLLETLKARLKSCCTCSMPCAQALVQGLFPALHWPVRLKEYLAGDM 74  
QY 114 SGLIVGILLVQSIAYSLLAGQBPVGLYTSFFASIIIFLLGTSRHISVIGFVGLCLMIG 173  
DB 75 SGLVIGIILVPOAIAYSLLAGLPIYSLYTSFFANLIYFLMGTSHRVNGVIFSLCLMVG 134  
QY 174 ETVDRELQKAGYD-NAHSAFSLGWSVNSTLNLNHTSDRI-----CDKSCVAIMVGTSTVFI 228  
DB 135 QVVDRELQAGFD--PSODSLGPKNNDSTLNNSTATLLIGLQDCRDCYAIRVATLTM 192  
QY 229 AGVYQVAMGFFQGVSVVYLSDALISGFVTGASFTILTSQAKYLLGLNLPRTNVGVSLIT 288  
DB 193 AGLVQVLMGILLRGLFVSTYLSQPLLDGFAMGASVTILTSQAKHMLGVQIPRHQGLGMVH 252  
QY 289 TWIHFVNRHNTKLNCDLITSLCLLVLLPTELNEHFYSKLKAPIDIELVVVVAATLASH 348  
DB 253 TWLSLLQVGOANICDVVTSALCLGVLLAAKELSDRYRHLKVPITPELFLVIVATVISH 312  
QY 349 FGKLEHYNSSSTAGHIPGEMPPKVPENWLIPSVAVDAIAISIIIGFAITVLSSEMFAGKH 408  
DB 313 FGQLHTRFDSRVAGNIPGFIPOVPDPKIMRWVALDANLVALSASFISIAEMFARSH 372  
QY 409 GYTVKANOMYAIAGFCNIIPSPFHCFITTSAAKATLVKSTCTHQLSGVTVLVLLVLL 468  
DB 373 GYSVANQELLAVGCCNVLPAFFHCFATSAALSKTLVKIATGTCQTLQSLSVSAAVVLLVL 432  
QY 469 LVIAPIFLYSQKSLGVITVNLRGALRKFRDLPKWMSISRMMDTWIWFVMTLSALLST 528  
DB 433 LVIAPIFLHDLQRCVLACIIVVSLRGALRKFRDLPKWMSISRMMDTWIWFVMTLSALLST 492  
QY 529 IGLLVGVCFISFCVILRTQKPKSSLLGLVESEVFSVSAKYNLQTKGKIKIFRFVAPLY 588  
DB 493 AGLLAGVFFSLLSLAGRTQRPRAALLARIGDSTFFEDAAEFGLLPPEVRFRTGP 552





QY 596 KSALYKQTVNPILIKVAMKAAKRKI--KEKVVTLGG-IQDE---MSVOLSHDPLE--L 646  
DB 555 LOSLSYSLTGLD-----AGCMAARRKEGGSETGVGEGPAQGEDLGPVSTRAALVPAAGF 609  
QY 647 HTVIDCSAIOFLNTAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDSLNGEYCKK---- 702  
DB 610 HTVIDCAPLLFLDAAGVSTLQDLRRDYGALGISTLLACCSPVRDILSRGGFLGEGPGD 669  
QY 703 -BEENLLFYSVYEMAF 719  
DB 670 TAEEOQLFSLVHDAVQTA 687

RESULT 12  
US-10-343-903-13  
; Sequence 13, Application US/10343903  
; Publication No. US20040224911A1  
; GENERAL INFORMATION:  
; APPLICANT: INCYTE GENOMICS, INC.; YUE, Henry;  
; APPLICANT: THORNTON, Michael; RAMKUNAR, Jayalaxmi;  
; APPLICANT: TANG, Y. Tom; AZIMZAI, Yalda;  
; APPLICANT: BAUGHN, Mariah R.; YANG, Junning;  
; APPLICANT: YAO, Monique G.; LAL, Preeti G.;  
; APPLICANT: CHAWLA, Narinder K.; GANDHI, Ameena R.;  
; APPLICANT: HAFALIA, April J.A.; NGUYEN, Dannie B.;  
; APPLICANT: ARVIZU, Chandra S.; ELLIOTT, Vicki S.;  
; APPLICANT: TRIBOULEY, Catherine M.; LU, Dyung Aina M.;  
; APPLICANT: XU, Yuming; REDDY, Roopa;  
; APPLICANT: HERNANDEZ, Roberto; BOROWSKY, Mark L.;  
; APPLICANT: LO, Terence P.; LU, Yan;  
; APPLICANT: POLICKY, Jennifer L.; GREENE, Barrie D.;  
; APPLICANT: SANJANWALA, Madhusudan M.; RAUMANN, Brigitte E.;  
; APPLICANT: BURFORD, Neil; ISON, Craig H.;  
; APPLICANT: LEE, Ernestine A.; DING, Li;  
; APPLICANT: DAS, Debopriya; KALLICK, Deborah A.;  
; APPLICANT: KHAN, Farrah A.; SEILHAMER, Jeffrey J.;  
; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS  
; FILE REFERENCE: PI-0183 USN  
; CURRENT APPLICATION NUMBER: US/10/343,903  
; CURRENT FILING DATE: 2003-02-03  
; PRIOR APPLICATION NUMBER: PCT/US01/24217  
; PRIOR FILING DATE: 2001-08-01  
; PRIOR APPLICATION NUMBER: 60/231,434  
; PRIOR FILING DATE: 2000-09-08  
; PRIOR APPLICATION NUMBER: 60/230,067  
; PRIOR FILING DATE: 2000-08-31  
; PRIOR APPLICATION NUMBER: 60/228,140  
; PRIOR FILING DATE: 2000-08-25  
; PRIOR APPLICATION NUMBER: 60/226,410  
; PRIOR FILING DATE: 2000-08-18  
; PRIOR APPLICATION NUMBER: 60/224,456  
; PRIOR FILING DATE: 2000-08-10  
; PRIOR APPLICATION NUMBER: 60/223,269  
; PRIOR FILING DATE: 2000-08-03  
; NUMBER OF SEQ ID NOS: 60  
; SOFTWARE: PERL Program  
; SEQ ID NO 13  
; LENGTH: 698  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; OTHER INFORMATION: Incyte ID No: 6952742CD1  
US-10-343-903-13

Query Match 43.1%; Score 1627; DB 5; Length 698;  
Best Local Similarity 47.6%; Pred. No. 2.2e-131;  
Matches 323; Conservative 138; Mismatches 193; Indels 24; Gaps 8;  
QY 56 IEHQKSDTHFKEFVKKQKNCOSPAKAKMILGFLPVLOWLPKYDLKKNILGDVWSG 115  
DB 17 VRRQRPAPRLREMLKARLWCSVLCVRALVODLLPATRWLRQYRPRLAGDVWSG 76

QY 116 LIVGILLVPOQSIAYSLLAGQBPVTLGTYSPFASIIYFLICTSRHSVGI FGVLCIMIGET 175  
DB 77 LVIGIIL---AIAYSLLAGLQPIYSLYTSFFANLIYFLMGTSRHSVSVGIFSLCLMVGQV 133  
QY 176 VDRELOKAGYDNAHSAPOSLGNVSGNSTLLNHTSDRICDKSCVAIMVSGTVTFPIAGVYQVA 235  
DB 134 VDRELOLAGFSPSQDGLQPG--ANSSTLNGSAMLDGCRDCYAIRVATALTMTGLYQVL 191  
QY 236 MGFFQVGFVSVYSLDALLSGFVTGASFTILTQAKYLLGLNLPRTNVSGSLTTTWHVPR 295  
DB 192 MGVLRLGFVSAYLSQPLLDGFAMGASVILTSLQKHLGLGVRIPRHQGPMVVLTWLSLR 251  
QY 296 NIHTNLCOLITSLCLLVLLPTKELNHFPSKLPAPIELVNVVAATLASHFGKLTEN 355  
DB 252 GAGQANVCVVTSTVCLAVLLAAKELSDRYRHLRVPLPTTELLVIVVATLVSHFGOLHCR 311  
QY 356 YNNSIAGHIPGFMPPKVPENLIPSVAVDAIAISIIIGFAITVSLSEMFAKKHGTYTVKAN 415  
DB 312 FGSSVAGDIPGFMPPQVPEPLMORVALDAVALVAAPFISLAEMFARSHGYSVRAN 371  
QY 416 OEMYAIGFCNIIPSPFFHCFTTSAALAKTLVKESTGHTQOLSGVTTALVLLVLLVIAPIF 475  
DB 372 QELLAVGCCNVLPAFLHCFATSAALAKSLVTATGCTOLSSVVSATVVLLVLLALAPLF 431  
QY 476 YSLQSVLGVITIVNLRGALRKFRDLPKWMSISRMOTVIFVMTLSSALLSTEIGLLVGV 535  
DB 432 HDLQSVLACVTVVSLRGALRKVMDLPRLMRMSPADALVWAGTVATCMVSTEAGLLAGV 491  
QY 536 CFSIECVILRTQPKKSLGLGVESEVFESVAYKNLQTKPGIKIPFVAPLYYINKECF 595  
DB 492 ILSLSLAGTQSHGTALLARIGDTAFYEDATEFEGLVPEQVVRFGGPLYANKPFF 551  
QY 596 KSALYKQTVNPILIKVAMKAAKRKI--KEKVVTLGG-IQDE---MSVOLSHDPLE--L 646  
DB 555 LOSLSYSLTGLD-----AGCMAARRKEGGSETGVGEGPAQGEDLGPVSTRAALVPAAGF 606  
QY 647 HTVIDCSAIOFLNTAGIHTLKEVRDYEAIGIQLVLAOCNPTVRDSLNGEYCKK---- 702  
DB 607 HTVIDCAPLLFLDAAGVSTLQDLRRDYGALGISTLLACCSPVRDILSRGGFLGEGPGD 666  
QY 703 -BEENLLFYSVYEMAF 719  
DB 667 TAEEOQLFSLVHDAVQTA 684  
RESULT 13  
US-09-813-432-14  
; Sequence 14, Application US/09813432  
; Publication No. US20030148485A1  
; GENERAL INFORMATION:  
; APPLICANT: Taupier Jr., Raymond J  
; APPLICANT: Majmuder, Kamud  
; APPLICANT: Spaderna, Steven K  
; APPLICANT: Smithson, Glenda  
; APPLICANT: Mezes, Peter S  
; APPLICANT: Vernet, Corine A. M.  
; TITLE OF INVENTION: No. US20030148485A1el Polypeptides and Amino Acids Encoding Same  
; FILE REFERENCE: 15966-729  
; CURRENT APPLICATION NUMBER: US/09/813,432  
; CURRENT FILING DATE: 2001-03-20  
; PRIOR APPLICATION NUMBER: 60/190,835  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: 60/190,768  
; PRIOR FILING DATE: 2000-03-20  
; PRIOR APPLICATION NUMBER: 60/190,972  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/191,199  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/191,947  
; PRIOR FILING DATE: 2000-03-24  
; PRIOR APPLICATION NUMBER: 60/192,665  
; PRIOR FILING DATE: 2000-03-28



Qy 536 CFSIFCIVLRTPKPKSSLLGLVESEVSEVSAVKNLQTKPGIKIFRVPAPLYYINKECP 595  
Db 427 ILSLSLAGRTQKPTALLARIGDTAFYEDATEFEGVLPEGVFRFGGLYANKDFF 486  
Qy 596 KSALYKOTVNPILIKVAKWKAARKKI--KEKVTLGG-IODE-----MSVQLSHDPLE--L 646  
Db 487 LOSLYSLTGLD-----ACGMAARRKEGSGTGVGEGGPAQGEDLGPVSTRAALVPAAGF 541  
Qy 647 HTVIDCSAIOFLNTAGHTLKEVRDYEAIGIQVLLAQCNPTVRDLSLTNGEYCKK----- 702  
Db 542 HTVIDCAPLLFLDAAGVSTLQDLRRDYGALGISLLACCSPVVRDILSRGGFLGEGPGD 601  
Qy 703 -EENLLFYSVYEAMAF 719  
Db 602 TAEEQLFLSVHDAVQTA 619

RESULT 15  
US-10-246-583-14  
; Sequence 14, Application US/1024583  
; Publication No. US20040058862A1  
; GENERAL INFORMATION:  
; APPLICANT: Majumder  
; TITLE OF INVENTION: NOVEL POLYPEPTIDES AND NUCLEIC ACIDS ENCODING SAME  
; FILE REFERENCE: 15966-729CIP2CON1  
; CURRENT APPLICATION NUMBER: US/10/246,583  
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; PRIOR APPLICATION NUMBER: 60/190,768  
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; PRIOR APPLICATION NUMBER: 60/190,972  
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; PRIOR APPLICATION NUMBER: 60/191,199  
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; PRIOR APPLICATION NUMBER: 60/192,665  
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; PRIOR FILING DATE: 2000-03-28  
; PRIOR APPLICATION NUMBER: 60/192,984  
; PRIOR FILING DATE: 2000-03-28  
; PRIOR APPLICATION NUMBER: 60/192,664  
; PRIOR FILING DATE: 2000-03-28  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
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; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 14  
; LENGTH: 633  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-246-583-14

Query Match 34.8%; Score 1314.5; DB 4; Length 633;  
Best Local Similarity 41.3%; Pred. No. 2.le-104;  
Matches 280; Conservative 124; Mismatches 185; Indels 89; Gaps 12;  
Qy 56 IERQKSDTNFKFEVTKLQKNCOCSAPAKAKMILGFLPVLQWLPKYDLKKNILGDVMSG 115  
Db 17 VRRQRPAPGLREMLKARLWCSCSVLCVRALVQDLPLATRWLRQYRPREVLADGVMSG 76  
Qy 116 LIVGILLVPQSIAYSLAQGPVGYLTSTFFASIIYFLGTGRHSIVGIFVLCLMIGET 175  
Db 77 LVIGIILVPOAIAYSLAGLQPIYSLYTSFFANLIYFLMGTSRHSVSVFSLCLMVGQV 136  
Qy 176 VDRELQKAGVDNAHSAPSLGMVSGSTLLNHTSDRICKSCVAIMVGSVTTFIAGVYQVA 235  
Db 137 VDRELQLAGDFPSQDGLQPG--ANSTLNGSAAMLDCGRDCYAIRVATALTMTGLYQVL 194  
Qy 236 MGFFQVGVSVVLSALLSGFVTGASFTILTQAKYLLGLNLPRTNGVSGSLITTHVFR 295

Db 195 MGVLRLGFEVSAYLSQPLLDGFAMGASVTILTSQKHLLGVRIIPRHQPGVNVITWLSLLR 254  
Qy 296 NIHTNLCULITSLLLCLLPTKELNEHFKSLKAPIETELVVVAATLASHFGKLHEN 355  
Db 255 GAGQANVCDVVTVCVLAALLAAKELSDRYRHLRVLPTTELIVIVVATLVSHFGQLHKR 314  
Qy 356 YNSSIAGHIPTGMPKPKVPEMNLIPSVAVDAIAISIGFAITVLSLSEMPAKKGHYTKAN 415  
Db 315 FGSGVAGDIPTGMPQVPEPRLMQRVALDALVAAAFSISLAEMFARSHGYSVRAN 374  
Qy 416 QEMVAIGFCNIIISFFHCFTTSAALAKTLVKESTGCHTQLSGVVTAVALVLLVLLVIAPLF 475  
Db 375 QELLAV-----HRG----- 383  
Qy 476 YSLQKSVLGVITIVNLRGALKRFRDLPKMWSISRMDTVIWFVTMLSSALLSTEIGLLGV 535  
Db 384 -----HLRGACQGV-GLPGCGG-SPADALVWAGTG-TCMLVSTEAGLLAGV 426  
Qy 536 CFSIFCIVLRTPKPKSSLLGLVESEVSEVSAVKNLQTKPGIKIFRVPAPLYYINKECP 595  
Db 427 ILSLSLAGRTQKPTALLARIGDTAFYEDATEFEGVLPEGVFRFGGLYANKDFF 486  
Qy 596 KSALYKOTVNPILIKVAKWKAARKKI--KEKVTLGG-IODE-----MSVQLSHDPLE--L 646  
Db 487 LOSLYSLTGLD-----ACGMAARRKEGSGTGVGEGGPAQGEDLGPVSTRAALVPAAGF 541  
Qy 647 HTVIDCSAIOFLNTAGHTLKEVRDYEAIGIQVLLAQCNPTVRDLSLTNGEYCKK----- 702  
Db 542 HTVIDCAPLLFLDAAGVSTLQDLRRDYGALGISLLACCSPVVRDILSRGGFLGEGPGD 601  
Qy 703 -EENLLFYSVYEAMAF 719  
Db 602 TAEEQLFLSVHDAVQTA 619

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